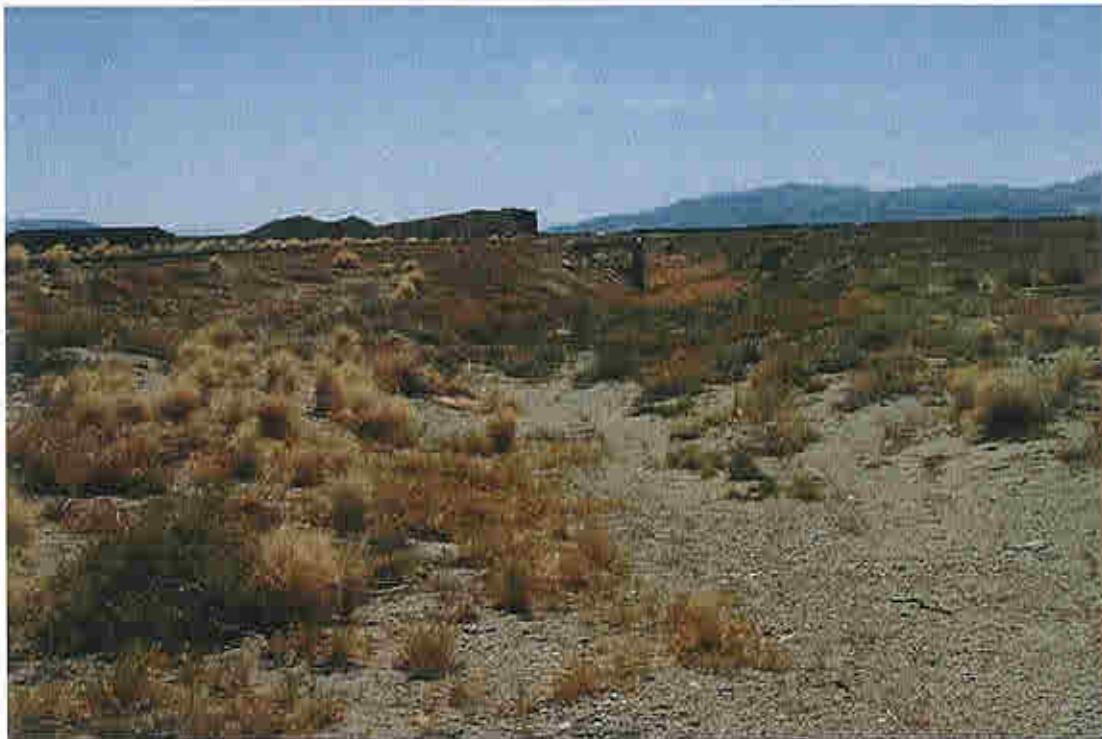


Decision Document

**Solid Waste Management Unit J02
115 Group Burn Area/Landfill
Hawthorne Army Depot
Hawthorne, Nevada**



Hawthorne Army
Depot



September 1999

Decision Document SWMU J-02

RECEIVED

September 1999

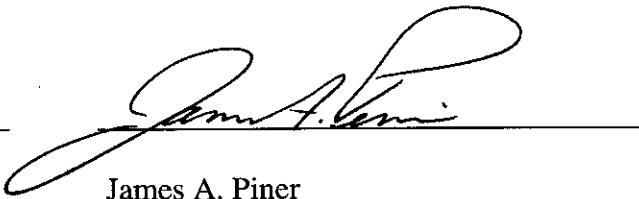
OCT 01 1999

ENVIRONMENTAL PROTECTION

The selected remedy is protective of human health and the environment. It has been shown that a complete pathway to human health and the environment does not exist, and there is no potential for an exposure pathway to be completed in the future.

U. S. Army

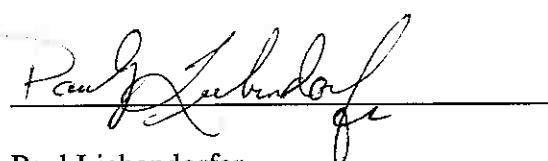
29 SEP 1999



James A. Piner
Lieutenant Colonel, U.S. Army

State of Nevada

13 Oct 1999



Paul Liebendorfer
Chief, Bureau of Federal Facilities

Decision Document

**Solid Waste Management Unit J02
115 Group Burn Area/Landfill
Hawthorne Army Depot
Hawthorne, Nevada**



Hawthorne Army
Depot



September 1999

**Decision Document
SWMU J-02,
115 Group Burn Area/Landfill
HAWTHORNE ARMY DEPOT
HAWTHORNE, NEVADA**

1.0 Introduction:

This decision document describes the rationale for the proposed closure of SWMU J-02, the 115 group burn area/landfill, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This document is prepared by the U.S. Army Corps of Engineers, Sacramento District, with the help of HWAD and the Nevada Department of Environmental Protection (NDEP).

Tetra Tech, Inc. (Tt), was tasked by the US Army Corps of Engineers, Sacramento District (USACE), to perform remedial investigations and ground water monitoring at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. These tasks were conducted from 1993 through 1997, primarily at solid waste management units (SWMUs) designated by the Army and the Nevada Division of Environmental Protection (NDEP). The NDEP is the lead regulatory agency for environmental issues at HWAD. The purpose of the sampling was to determine the extent and degree of environmental impacts, if any, associated with activities performed at each SWMU. The primary goal of the investigation was to assess the environmental impacts and to report the findings, present conclusions, and recommend any remediation, if necessary.

With guidance from the NDEP, basewide proposed closure goals (PCGs) for soil were established as acceptable levels so that SWMU closure could be recommended and to assist in directing the investigative efforts toward those SWMUs where the target analytes were of greatest concern. These PCGs were used as action levels throughout this investigation and are used for comparison with the detected analytes in this report (Appendix B).

2.0 Site History

SWMU J02 is in HWAD's north magazine area at the south end of Magazine Group 115 (Figure 1-1). This SWMU was a 5.5-acre open burn and landfill disposal area south of a railroad spur (Figure 1-2). Between the disposal area and the railroad is a ten-foot deep trench, approximately 400 feet long.

The USACE, HWAD, and the NDEP agreed to define the boundaries of each SWMU using annotated monuments and survey pins. As part of Tt's 1997 field investigation, a survey monument was constructed and surveyed at SWMU J02. A brass survey pin on the monument designates the monument number HWAAP-20-1996 and the SWMU number J02. Two corner pins were set and surveyed to define the SWMU boundary, with the monument as

the north corner. The location of these corner markers and the SWMU boundary are shown on Figure 1-2. The survey data for SWMU J02 is presented in Appendix A.

3.0 Site Conditions

SWMU J02 is an open burn and landfill disposal area that was identified in a 1980 aerial photograph. The aerial photograph indicated a cluster of about six burn areas, a trench, and a refuse dump within the boundary of this SWMU. The ground surface appears to be flat and void of most vegetation, indicating that the area had been recently graded (Tt 1993). Based on the calculated ground water elevations from the base wide network of wells and the ground surface elevation at SWMU J02, the depth to the shallowest ground water at this SWMU is interpolated to be approximately 50 feet below the ground surface (bgs), and the projected ground water gradient direction is estimated to be toward the north northwest.

During Tt's 1993 site inspection of SWMU J02, the ground surface did not contain any recognizable burn areas. Only small metal items associated with packaging, such as nails and strapping, were observed, indicating that packaging materials, such as pallets, crates, and cardboard, were likely burned in these areas (Tt 1993). It is likely that petroleum fuels, such as gasoline, kerosene, or diesel, were used to ignite the dunnage and may have been released at SWMU J02. Tt also observed that the trench at SWMU J02 appeared to have been designed for top loading vehicles from a concrete dock adjacent to the railroad spur. The trench was approximately ten feet deep at its deepest point and gradually sloped up to the southeast. A corroded 55-gallon drum was observed in the trench east of the dock, and metal strapping, wood, and other minor debris were observed in the trench (Tt 1993). Except for this minor debris, there was no evidence of stained or contaminated soil in the trench; therefore, it does not appear that the trench on the northeast side of SWMU J02 was used for disposal.

Based on the general activities considered likely to have occurred at SWMU J02 and on the site inspections, the target analytes were metals and explosives as potential components handled during shipping operations; and petroleum hydrocarbon fuels, such as gasoline and diesel, and petroleum hydrocarbon fuel constants, such as benzene, toluene, ethylbenzene, and xylenes (BTEX), and other volatile organic compounds (VOCs), most likely used as ignition materials.

4.0 Investigations

A site inspection of SWMU J02 was conducted by the Resource Applications, Inc. (RAI), in 1992 (RAI 1992). During this inspection, no evidence of chemical releases was reported at this SWMU.

Tt conducted geophysical surveys and a soil gas survey for field reconnaissance during the 1994 remedial investigation. During the 1994 and 1997 remedial investigations near surface and subsurface soil samples were collected to better define and characterize the SWMU.

Seven vapor monitoring probes were installed at SWMU J02 to depths of five feet bgs to collect the soil gas samples.

During Tt's 1994 remedial investigation of SWMU J02, Norcal Geophysical Consultants, Inc., of Petaluma, California, performed surface geophysical surveys. The geophysical surveys included a vertical magnetic gradient (MAG) survey and an electromagnetic terrain conductivity (EMAG) survey. These two surveys were conducted simultaneously on a 20-foot grid over a 600-foot by 320-foot area (4.4 acres) where the open burn areas and the refuse dump were identified on the 1980 aerial photograph. Soil samples collected in 1994 and 1997 were analyzed for metals, for explosives and petroleum hydrocarbon as diesel (TPH-d) using standard USEPA methods. The locations of these activities are shown on Figure 3-1.

5.0 Investigation Results

The soil gas results showed no VOCs in any of the soil gas samples collected from SWMU J02. The MAG and EMAG surveys found one MAG anomaly and two EMAG anomalies (Figure 3-1). Appendix C summarizes the detected analytical results of the 17 subsurface soil samples collected from the soil borings during Tt's 1994 remedial investigation; and the 14 subsurface soil samples collected from test pits and trenches during Tt's 1997 investigation of SWMU J02. Figure 3-1 illustrates the boring, trench and pit locations from these two field investigations. No TPH-d or VOCs were found in any of the 14 subsurface soil samples collected from the test pits and trenches at SWMU J02. For the organic analyses conducted, there were no VOCs, explosives, or petroleum hydrocarbons detected in surface soils at concentrations greater than their respective MDL at this SWMU. One sample indicated total chromium at 69 mg/kg which exceeds total chromium's PCG of 20 mg/kg. Another sample indicated arsenic at 161 mg/kg which exceeds arsenic's PCG of 100 mg/kg. The sample that contained the concentration of total chromium (J02-HA06-1-S) was collected from hand-auger sample location HA06 at a depth of one foot bgs. The sample that contained the concentration of arsenic (J02-TP03-2-S) was collected from test pit TP03 at a depth of 1.5 feet bgs. These two soil samples were the only samples that contained elevated concentrations of metals out of the 40 soil samples collected at all depths from SWMU J02.

There are no employee operations in this area, except for the occasional loading and unloading of materials into the magazines. These operations usually employ two workers for approximately two hours and would not likely occur near this SWMU more than once or twice a year (Millsap 1998). In addition, a security person passes through the area surrounding SWMU J02 approximately twice a week; however, this person generally does not leave his/her vehicle or spend time at this SWMU. As such, there are no other buildings or employee activities in the vicinity of this SWMU, and any potential exposure risks to off-site receptors would be significantly less than those estimated for the full-time, on-site industrial receptors assessed in this risk evaluation. A risk assessment using industrial PRGs, estimated the cancer risk at SWMU J02 of 6.7×10^{-5} . A non-cancer Hazard Indices (HI) of 1 or less is considered protective of human health under current USEPA guidelines. Using the USEPA Region IX industrial PRGs, the estimated HI for SWMU J02 is 0.42.

6.0 Remediation

No remediation action was required for this site.

7.0 Remediation Results

Not applicable

8.0 Public Involvement

It is the U.S. Department of Defense and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established and maintains a repository library at the local public library. This repository includes final copies of all past studies and other documents regarding environmental issues at HWAD. As future environmental documents are made available to HWAD the repository shall be updated. HWAD has solicited community participation in establishment of a restoration and advisory board (RAB). To date there has been insufficient response and HWAD has not formed a RAB. HWAD has held open houses to inform the public of on going environmental issues. HWAD continues to solicit community involvement, and will establish a RAB should sufficient community interest be obtained.

9.0 Conclusions and Recommendations

While the cancer risk assessment was in excess of the 1×10^{-6} risk level set by the USEPA, it is under the mandatory 1×10^{-4} risk level. The low employee usage of the site and its isolated location SWMU J02 is recommended to the NDEP for site closure without land use restrictions.

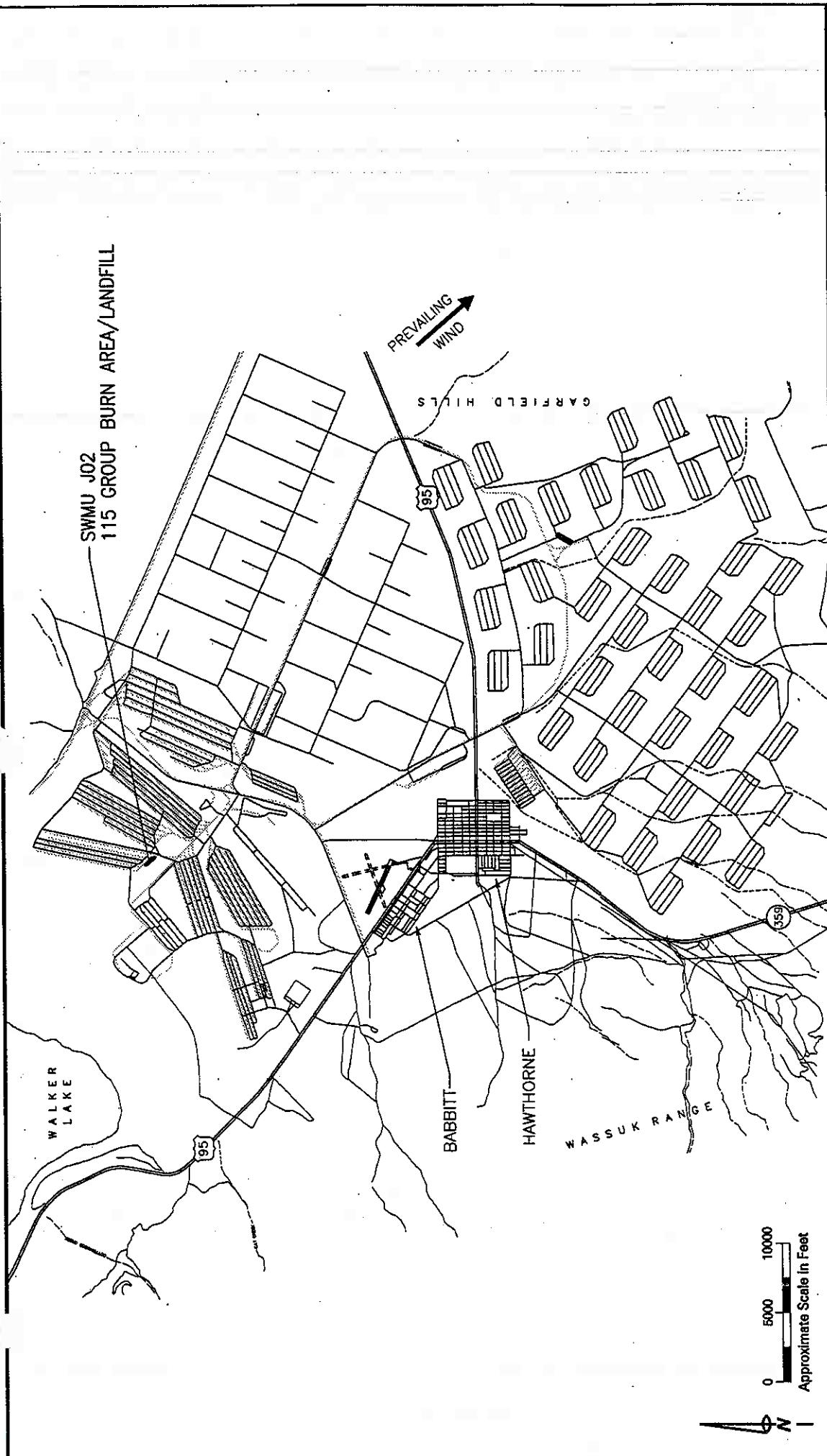
10.0 REFERENCES

- NDEP. December 1998. Letter to HWAD. Draft Remedial Investigation reports, Solid Waste Management Units J02, J16, J25.
- Millsap, Herman. 1998. Hawthorne Army Depot. Personal communication via telephone with Richard Brunner of Tetra Tech. July 7, 1998.
- RAI. 1992. Site Screening Inspection (SSI) for the Hawthorne Army Ammunition Plant, Hawthorne, NV. Prepared for the U.S. Army Corps of Engineers Toxic and Hazardous Materials Agency by Resource Applications, Inc., Falls Church, Virginia. December 1992.
- Tetra Tech, Inc. (Tt). 1993. Draft Technical Memorandum for Group B SWMUs, Hawthorne Army Ammunition Plant. November 22, 1993.
- _____. 1994a. Hawthorne Army Ammunition Plant - Group B Remedial Investigation: Final Site Safety and Health Plan.
- _____. 1994b. Hawthorne Army Ammunition Plant - Group B Remedial Investigation: Final Work Plan. Two volumes.
- _____. 1994c. Hawthorne Army Ammunition Plant - Group B Remedial Investigation: Final Chemical Data Acquisition Plan.
- _____. 1997a. Final Quarterly Ground Water Monitoring Report, First Quarter 1997, Hawthorne Army Depot, Hawthorne, Nevada. September 1997.
- _____. 1997b. Quarterly Ground Water Monitoring Report, Second Quarter 1997, Hawthorne Army Depot, Hawthorne, Nevada. July 1997.
- _____. 1997c. Final Site Health and Safety Plan, Hawthorne Army Depot, Hawthorne, Nevada. February 1997.
- _____. 1997d. Final Data Package with recommendations for future action, Group B solid waste management units, Hawthorne Army Depot, Hawthorne, Nevada, Volumes 1, 2a, and 2b. January 1997.
- _____. 1997e. Final Sampling and Analysis Plan, Remedial Investigations, Groups A and B Solid Waste Management Units, Hawthorne Army Depot, Hawthorne, Nevada. February 1997.
- _____. 1997f. Final Technical Memorandum Background Sampling at the Hawthorne Army Depot, Hawthorne, Nevada. March 1997.

US Army Corps of Engineers (USACE). 1995. Risk Assessment Handbook: Volume I Human Health Assessment (EM 200-1-4). June 1995.

US Environmental Protection Agency (USEPA). 1989. Risk Assessment Guidance for Superfund. Volume I Human Health Evaluation Manual (Part A). USEPA. December 1989.

US Environmental Protection Agency (USEPA). 1996. Region IX Preliminary Remediation Goals. USEPA Region IX. August 1996.



SOURCE: TETRA TECH FINAL DATA PACKAGE, 1996 (REV. 1997)

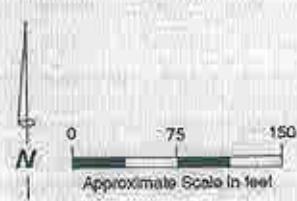
**Site Location Map
SWMU J02**
115 Group Burn Area/Landfill
Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-1



Legend:

- Boundary Corner Pin
- Railroad
- SWMU Monument



**Site Map
SWMU J02
115 Burn Area Landfill**
Hawthorne Army Depot
Hawthorne, Nevada
Figure 1-2



**Investigation Activity Map
SWMU J02**

115 Burn Area Landfill

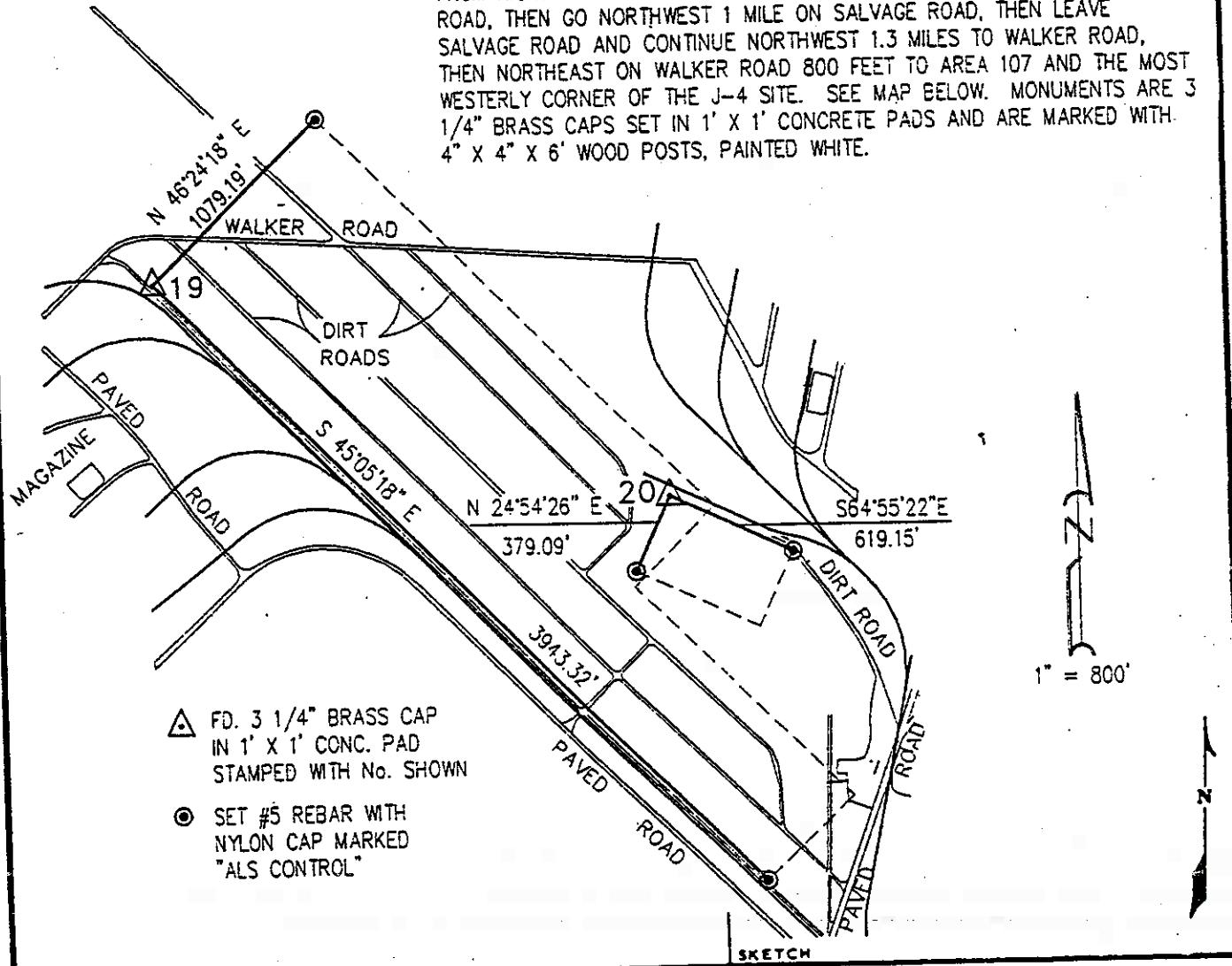
Hawthorne Army Depot
Hawthorne, Nevada

Figure 3-1

Appendix A

COUNTRY USA	TYPE OF MARK BRASS CAP	STATION 20	ELEVATION 4058.36 (FT) (M)
LOCALITY HAWTHORNE NEV.	STAMPING ON MARK 20 J-2	AGENCY (CAST IN MARKS) COE HWAAP	DATUM NGVD '29
LATITUDE $38^{\circ}35'28.56Z82''N$	LONGITUDE $118^{\circ}37'51.25653''W$	DATUM NAD '27	DATUM ESTABLISHED BY (AGENCY) A.L.S.
(NORTHING)(EASTING) 1398356.13 (M)	(EASTING)(NORTHING) 486403.50 (M)	GRID AND ZONE NEVADA SP WEST	DATE 1997
(NORTHING)(EASTING) (FT)	(EASTING)(NORTHING) (M)	GRID AND ZONE	ORDER 2ND
TO OBTAIN GRID AZIMUTH, ADD		TO THE GEODETEC AZIMUTH	
TO OBTAIN GRID AZ. (ADD)(SUB.)		TO THE GEODETEC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETEC)(GRID) (MAGNETIC)	BACK AZIMUTH	GEOG. DISTANCE (METERS) (FEET)

MONUMENTS 19 AND 20 - SWMU'S J-4 AND J-2
 FROM HIGHWAY 95 TAKE THORNE ROAD NORTHEAST 3 MILES TO SALVAGE
 ROAD, THEN GO NORTHWEST 1 MILE ON SALVAGE ROAD, THEN LEAVE
 SALVAGE ROAD AND CONTINUE NORTHWEST 1.3 MILES TO WALKER ROAD,
 THEN NORTHEAST ON WALKER ROAD 800 FEET TO AREA 107 AND THE MOST
 WESTERLY CORNER OF THE J-4 SITE. SEE MAP BELOW. MONUMENTS ARE 3
 $\frac{1}{4}$ " BRASS CAPS SET IN 1' X 1' CONCRETE PADS AND ARE MARKED WITH
 4" X 4" X 6" WOOD POSTS, PAINTED WHITE.



- △ FD. 3 1/4" BRASS CAP
IN 1' X 1' CONC. PAD
STAMPED WITH No. SHOWN
- SET #5 REBAR WITH
NYLON CAP MARKED
"ALS CONTROL"

SWMU J02 Survey Data
Hawthorne Army Depot
Hawthorne, Nevada

SWMU	Point ID	Northing (feet)	Easting (feet)	Elevation
J02	HWAAP-20-1996	1398356.13	486403.50	4058.36
J02	Pin 1	1398093.71	486964.29	NE
J02	Pin 2	1398012.30	486243.85	NE
J02	HA01	1398298.95	486508.61	NE
J02	HA02	1398240.99	486635.85	NE
J02	HA03	1398169.64	486778.71	NE
J02	HA04	1398196.40	486528.70	NE
J02	HA05	1398100.53	486745.23	NE
J02	HA06	1398089.38	486455.04	NE
J02	HA07	1398098.30	486526.47	NE
J02	HA08	1398064.86	486642.54	NE
J02	HA09	1398029.18	486718.44	NE
J02	SB01	1398145.12	486693.89	NE
J02	SB02	1398234.30	486501.92	NE
J02	SB03	1398073.77	486551.03	NE
J02	SG01	1398272.20	486352.36	NE
J02	SG02	1398104.99	486285.39	NE
J02	SG03	1398140.66	486434.95	NE
J02	SG04	1398053.71	486568.88	NE
J02	SG05	1398145.12	486700.58	NE
J02	SG06	1397868.66	486680.49	NE
J02	SG07	1398024.72	486865.76	NE
J02	TP01	1398078.36	486806.01	NE
J02	TP02	1397895.52	486732.32	NE
J02	TP03	1398132.37	486639.09	NE
J02	TR01	1398098.591	486714.60	NE
J02		1398122.03	486732.87	NE
J02	TR02	1398162.09	486631.02	NE
J02		1398185.64	486650.91	NE
J02	TR03	1397868.13	486759.52	NE
J02		1397885.83	486782.11	NE
J02	TR04	1398003.90	486804.50	NE
J02		1398021.97	486826.90	NE

Notes:

NE = Not established

Coordinate data based on electronic map file using the NAD 1927 datum.

Elevation data based on surveyors map using NGVD 1929 datum.

Appendix B

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-Carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Nitrate	Anion	NC	128,000	Calculated Subpart S ^a
2-Amino-dinitrotoluene	Explosive	NC	-	NA ^b
4-Amino-dinitrotoluene	Explosive	NC	-	NA
1,3-Dinitrobenzene	Explosive	NC	8	Calculated Subpart S
2,4-Dinitrotoluene	Explosive	NC	160	Calculated Subpart S
2,6-Dinitrotoluene	Explosive	NC	80	Calculated Subpart S
HMX	Explosive	NC	4,000	Calculated Subpart S
Nitrobenzene	Explosive	NC	40	Calculated Subpart S
Nitrotoluene (2-, 3-, 4-)	Explosive	NC	800	Calculated Subpart S
RDX	Explosive	NC	64	Calculated Subpart S
Tetryl	Explosive	NC	800	Calculated Subpart S
1,3,5-Trinitrobenzene	Explosive	NC	4	Calculated Subpart S
2,4,6-Trinitrotoluene	Explosive	C	233	Calculated Subpart S
Aluminum	Metal	NC	80,000	Calculated Subpart S
Arsenic (cancer endpoint)	Metal	C & NC	30	Background ^c
Barium and compounds	Metal	NC	5,600	Calculated Subpart S
Beryllium and compounds	Metal	C	1	Background
Cadmium and compounds	Metal	NC	40	Calculated Subpart S
Chromium III and compounds	Metal	NC	80,000	Calculated Subpart S
Lead	Metal	NC	1000	PRG ^d
Mercury and compounds (inorganic)	Metal	NC	24	Calculated Subpart S
Selenium	Metal	NC	400	Calculated Subpart S
Silver and compounds	Metal	NC	400	Calculated Subpart S
Acenaphthene	PAH	NC	4,800	Calculated Subpart S
Benzo[a]anthracene	PAH	C	0.96	Calculated Subpart S
Benzo[a]pyrene	PAH	C	0.10	Detection Limit ^e
Benzo[b]fluoranthene	PAH	C	0.96	Calculated Subpart S
Benzo[k]fluoranthene	PAH	C	10	Calculated Subpart S
Chrysene	PAH	C	96	Calculated Subpart S
Dibenz[ah]anthracene	PAH	C	0.96	Calculated Subpart S
Fluoranthene	PAH	NC	3,200	Calculated Subpart S
Fluorene	PAH	NC	3,200	Calculated Subpart S
Indeno[1,2,3-cd]pyrene	PAH	C	-	NA
Naphthalene	PAH	NC	3,200	Calculated Subpart S
Pyrene	PAH	NC	2,400	Calculated Subpart S
Total Petroleum Hydrocarbons as Diesel (TPH-d)	PAH	C	100	NDEP Level Clean-up ^f
Polychlorinated biphenyls (PCBs)	PCBs	C	25	TSCA ^g
Bis(2-ethylhexyl)phthalate (DEHP)	SVOC	C	1,600	Calculated Subpart S
Bromoform (tribromomethane)	SVOC	C	89	Calculated Subpart S

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Butyl benzyl phthalate	SVOC	NC	16,000	Calculated Subpart S
Dibromochloromethane	SVOC	C	83	Calculated Subpart S
Diethyl phthalate	SVOC	NC	8,000	Calculated Subpart S
Phenanthrene	SVOC	NC	64,000	Calculated Subpart S
Phenol	SVOC	NC	-	NA
Acetone	VOC	NC	800	Calculated Subpart S
Anthracene	VOC	NC	24,000	Calculated Subpart S
Benzene	VOC	C	24	Calculated Subpart S
Bis(2-chloroisopropyl)ether	VOC	C	3,200	Calculated Subpart S
Bromomethane	VOC	NC	112	Calculated Subpart S
Carbon tetrachloride	VOC	C	5	Calculated Subpart S
Chlorobenzene	VOC	NC	1,600	Calculated Subpart S
Chloroform	VOC	C	115	Calculated Subpart S
Chloromethane	VOC	C	538	Calculated Subpart S
Dibromomethane	VOC	C	0.008	Calculated Subpart S
1,2-Dichlorobenzene	VOC	NC	7,200	Calculated Subpart S
1,4-Dichlorobenzene	VOC	C	18,300	Calculated Subpart S
Dichlorodifluoromethane	VOC	C	16,000	Calculated Subpart S
Ethylbenzene	VOC	NC	8,000	Calculated Subpart S
Methylene bromide	VOC	NC	800	Calculated Subpart S
Methylene chloride	VOC	C	4,800	Calculated Subpart S
2-Methylnaphthalene	VOC	-	-	NA
1,1,2,2-Tetrachloroethane	VOC	C	35	Calculated Subpart S
Tetrachloroethylene (PCE)	VOC	C & NC	800	Calculated Subpart S
Toluene	VOC	NC	16,000	Calculated Subpart S
1,1,1-Trichloroethane	VOC	NC	7,200	Calculated Subpart S
Trichloroethylene (TCE)	VOC	C & NC	480	Calculated Subpart S
Trichlorofluoromethane	VOC	NC	24,000	Calculated Subpart S
1,2,3-Trichloropropane	VOC	C	480	Calculated Subpart S
Vinyl chloride	VOC	C	0.37	Calculated Subpart S
Xylene Total (m-, o-, p-)	VOC	NC	160,000	Calculated Subpart S
2,3,7,8-TCDD	Dioxin	C	0.000005	Calculated Subpart S

^a RCRA 55 FR 30870

^b Not available

^c Highest background concentration detected in 50 background soil samples

^d Smucker, Stanford J. USEPA Region IX, Preliminary Remedial Goals, Second Half, Sep. 1995

^e Method detection limit for Volatile Organic Compounds by EPA Method 8260 or

^f Semi-Volatile Organic Compounds analyzed by EPA Method 8270

^g Nevada Division of Environmental Protection

^h Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

Appendix C

TPH Test Kit
Method 4030 (Tt Field)

Sample ID	Location ID	Sample Depth		Lab	TPH-d	TPH-d (Rerun)	TPH-d-Dup
		Date	(feet)				
					mg/kg	mg/kg	mg/kg
J02-TP01-1-S	TP01	2/26/97	5	Tt Field	100<X<500	NA	NA
J02-TP01-2-S	TP01	2/26/97	3	Tt Field	100<X<500	NA	NA
J02-TP01-3-S	TP01	2/26/97	3	Tt Field	100<X<500	NA	NA
J02-TP02-1-S	TP02	2/27/97	5	Tt Field	100<X<500	NA	NA
J02-TP02-2-S	TP02	2/27/97	1	Tt Field	100<X<500	NA	NA
J02-TP03-1-S	TP03	2/27/97	5	Tt Field	100<X<500	NA	NA
J02-TP03-2-S	TP03	2/27/97	1.5	Tt Field	100<X<500	NA	NA
J02-TR01-1-S	TR01	2/27/97	6	Tt Field	100<X<500	0<X<20	NA
J02-TR01-2-S	TR01	2/27/97	6	Tt Field	100<X<500	NA	NA
J02-TR01-3-S	TR01	2/27/97	11.5	Tt Field	100<X<500	NA	NA
J02-TR01-4-S	TR01	2/27/97	6	Tt Field	100<X<500	NA	NA
J02-TR01-5-S	TR01	2/27/97	13	Tt Field	100<X<500	NA	NA
J02-TR02-1-S	TR02	2/27/97	5	Tt Field	100<X<500	NA	NA
J02-TR02-2-S	TR02	2/27/97	5	Tt Field	100<X<500	NA	NA
<hr/>							
Analyses					14	1	0
Detections					0	0	0
Minimum Concentration					0	0	0
Maximum Concentration					0	0	0
<hr/>							
HWAD - PCG					100	100	100
HWAD - PCG Hits					14	0	0

Notes:

NA = Not analyzed.

NE = Not established.

BTEX Test Kit
Method 4031 (Tt Field)

Sample ID	Location ID	Date	Depth (feet)	Lab	BTEX
					mg/kg
J02-DP135	HA09	7/23/94	2	Tt Field	X<2
J02-DP273	SB03	8/21/94	8	Tt Field	X<4
J02-HA01-1-S	HA01	7/22/94	2	Tt Field	X<2
J02-HA01-2-S	HA01	7/22/94	3	Tt Field	X<2
J02-HA02-1-S	HA02	7/22/94	2	Tt Field	X<2
J02-HA03-1-S	HA03	7/22/94	2	Tt Field	X<2
J02-HA03-2-S	HA03	7/22/94	3	Tt Field	X<2
J02-HA04-1-S	HA04	7/22/94	1.5	Tt Field	X<2
J02-HA04-2-S	HA04	7/22/94	3	Tt Field	X<2
J02-HA05-1-S	HA05	7/22/94	2	Tt Field	X<2
J02-HA05-2-S	HA05	7/22/94	5	Tt Field	X<2
J02-HA06-1-S	HA06	7/22/94	1	Tt Field	X<2
J02-HA09-1-S	HA09	7/23/94	1	Tt Field	X<2
J02-HA09-2-S	HA09	7/23/94	2	Tt Field	X<2
J02-SB02-1-S	SB02	8/21/94	8	Tt Field	X<4
J02-SB03-1-S	SB03	8/21/94	8	Tt Field	X<4
<hr/>					
Analyses					16
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					NE
HWAD - PCG Hits					NE
<hr/>					

Notes:

NA = Not analyzed.

NE = Not established.

Metals
Method 6010 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Aluminum	Arsenic	Barium	Cadmium	Selenium	Silver	Chromium	Lead
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-DP132	HA09	7/23/94	2	BCA	NA	15 ^j	40	0.71	<5	<0.9	5.2	<5
J02-DP270	SB02	8/21/94	8	BCA	NA	<6	230	<0.3	<7	<1.3	20	10 ^j
J02-DP275	SB03	8/21/94	8	BCA	NA	<6	280	<0.3	<7	<1.3	17	<7
J02-HA01-1-S	HA01	7/22/94	2	BCA	NA	15 ^j	67	<0.2	<5	<1	<0.6	<5
J02-HA01-2-S	HA01	7/22/94	3	BCA	NA	16 ^j	59	<0.2	<5	<1	<0.6	<5
J02-HA02-1-S	HA02	7/22/94	2	BCA	NA	16 ^j	70	<0.2	<5	<0.9	<0.6	5
J02-HA03-1-S	HA03	7/22/94	2	BCA	NA	10 ^j	69	<0.2	<5	<1	<0.6	6.9 ^j
J02-HA03-2-S	HA03	7/22/94	3	BCA	NA	7.2 ^j	94	<0.2	<5	<0.9	1 ^j	27 ^j
J02-HA04-1-S	HA04	7/22/94	1.5	BCA	NA	16 ^j	77	<0.2	<5	<0.9	<0.6	<5
J02-HA04-2-S	HA04	7/22/94	3	BCA	NA	7.6 ^j	51	<0.2	<5	<1	<0.6	<5
J02-HA05-1-S	HA05	7/22/94	2	BCA	NA	10 ^j	29	<0.2	<5	<1	<0.7	<5
J02-HA05-2-S	HA05	7/22/94	5	BCA	NA	6 ^j	200	<0.2	<6	<1.1	1.1 ^j	<6
J02-HA06-1-S	HA06	7/22/94	1	BCA	NA	<4	51	<0.2	<5	<0.9	69	<5
J02-HA07-1-S	HA07	7/23/94	1	BCA	NA	6.9 ^j	49	<0.2	<5	<0.9	4 ^j	<5
J02-HA08-1-S	HA08	7/23/94	1	BCA	NA	13 ^j	35	<0.2	<5	<0.9	1.8 ^j	<5
J02-HA09-1-S	HA09	7/23/94	1	BCA	NA	24 ^j	37	<0.2	<5	<0.9	3.8 ^j	<5
J02-HA09-2-S	HA09	7/23/94	2	BCA	NA	19 ^j	48	<0.2	<5	<0.9	3.4 ^j	<5
J02-SB01-1-S	SB01	8/21/94	8.25	BCA	NA	<6	430	<0.3	<7	<1.2	17	9.4 ^j
J02-SB01-2-S	SB01	8/21/94	19.25	BCA	NA	<4	91	0.33 ^u	<5	<1	9.5	<5
J02-SB01-3-S	SB01	8/21/94	23.25	BCA	NA	<4	44	0.34 ^u	<5	<0.9	5.2	<5
J02-SB02-1-S	SB02	8/21/94	8	BCA	NA	<5	290	<0.3	<7	<1.2	17	9.1 ^j
J02-SB02-2-S	SB02	8/21/94	19.25	BCA	NA	7.5 ^j	190	0.44 ^u	<5	<0.9	4.5 ^j	<5
J02-SB02-3-S	SB02	8/21/94	23.25	BCA	NA	<4	71	0.35 ^u	<5	<1	7.9	<5
J02-SB03-1-S	SB03	8/21/94	8	BCA	NA	<5	190	<0.2	<6	<1.1	14	<6
J02-SB03-2-S	SB03	8/21/94	19.25	BCA	NA	14 ^j	560	0.71 ^u	14 ^j	<1	10	<6
J02-SB03-3-S	SB03	8/21/94	23.25	BCA	NA	<4	41	0.41 ^u	<5	<0.9	3.9 ^j	<5
Analyses					0	26	26	26	26	26	26	26
Detections					0	16	26	7	1	0	19	6
Minimum Concentration					0	6	29	0.33	14	0	1	5
Maximum Concentration					0	24	560	0.71	14	0	69	27
HWAD - PCG					80000	100	2000	20	20	100	20	100
HWAD - PCG Hits					0	0	0	0	0	0	2	0
Maximum Background Concentration					12365	18.1	447	1.08	0	0	13.76	16.7
Background Hits					0	2	1	0	0	0	6	1

Notes:

NA = Not analyzed.

NE = Not established.

Metals
Method 6010A (APCL)

Sample ID	Location	Sample Date	Depth (feet)	Lg	Metals							
					Aluminum, Total	Boron, Total	Cadmium, Total	Chromium, Total	Lead, Total	Nickel, Total	Selenium, Total	Silver, Total
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-TP01-1-S	TP01	2/26/97	5	APCL	7360	7.8	72.7	<0.02	<0.023	4.5	4.7	NA
J02-TP01-2-S	TP01	2/26/97	3	APCL	10900	6.6	137	<0.02	<0.023	6.5	6	NA
J02-TP01-3-S	TP01	2/26/97	3	APCL	8640	5.8	98.7	<0.019	<0.022	5.3	5.2	NA
J02-TP02-1-S	TP02	2/27/97	5	APCL	4170	9.7	46.2	<0.019	<0.022	3.9	4.7	NA
J02-TP02-2-S	TP02	2/27/97	1	APCL	3770	25.9	72.5	<0.018	0.27	5.1	14.1	NA
J02-TP03-1-S	TP03	2/27/97	5	APCL	12700	19.7	187	<0.02	0.19 ^J	8.5	7.9	NA
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	3710	161	58.6	<0.018	1.2	9.7	26.9	NA
J02-TR01-1-S	TR01	2/27/97	6	APCL	3260	14.3	59.5	<0.017	0.15 ^J	2.8	4.4	NA
J02-TR01-2-S	TR01	2/27/97	6	APCL	3020	14.6	61.7	<0.017	0.17 ^J	2.5	4.7	NA
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	3110	7.5	46.9	<0.017	0.08 ^J	1.6	2.4	NA
J02-TR01-4-S	TR01	2/27/97	6	APCL	5540	20.7	62.8	<0.018	0.22	4.5	3.5	NA
J02-TR01-5-S	TR02	2/27/97	13	APCL	3900	18.1	55.2	<0.018	0.17 ^J	3.4	3.4	NA
J02-TR02-1-S	TR02	2/27/97	5	APCL	22600	8.7	273	0.18 ^J	<0.028	12.4	12.5	NA
J02-TR02-2-S	TR02	2/27/97	6	APCL	15500	17.9	263	0.17 ^J	0.34	9.9	10.6	NA
<hr/>												
Analyses					14	14	14	14	14	14	0	14
Detections					14	14	2	9	14	14	0	0
Minimum Concentration					3020	5.8	46.2	0.17	0.08	1.6	2.4	0
Maximum Concentration					22600	161	273	0.18	1.2	12.4	26.9	0
HWAD - PCG					80000	100	2000	1	20	20	100	NE
HWAD - PCG Hits					0	1	0	0	0	0	0	0
Maximum Background Concentration					12365	18.1	447	0.58	1.08	13.76	16.7	0
Background Hits					3	4	0	0	1	0	0	0
<hr/>												

Notes:
NA = Not analyzed.
NE = Not established.

Mercury
Method 7471 (BCA)

Sample ID	Location ID	Date	Depth (feet)	Lab	Mercury
					mg/kg
J02-DP132	HA09	7/23/94	2	BCA	<0.04
J02-DP270	SB02	8/21/94	8	BCA	<0.06
J02-DP275	SB03	8/21/94	8	BCA	<0.06
J02-HA01-1-S	HA01	7/22/94	2	BCA	0.047
J02-HA01-2-S	HA01	7/22/94	3	BCA	0.051
J02-HA02-1-S	HA02	7/22/94	2	BCA	0.043
J02-HA03-1-S	HA03	7/22/94	2	BCA	<0.04
J02-HA03-2-S	HA03	7/22/94	3	BCA	<0.04
J02-HA04-1-S	HA04	7/22/94	1.5	BCA	0.046
J02-HA04-2-S	HA04	7/22/94	3	BCA	<0.04
J02-HA05-1-S	HA05	7/22/94	2	BCA	<0.04
J02-HA05-2-S	HA05	7/22/94	5	BCA	<0.05
J02-HA06-1-S	HA06	7/22/94	1	BCA	<0.04
J02-HA07-1-S	HA07	7/23/94	1	BCA	<0.04
J02-HA08-1-S	HA08	7/23/94	1	BCA	<0.04
J02-HA09-1-S	HA09	7/23/94	1	BCA	<0.04
J02-HA09-2-S	HA09	7/23/94	2	BCA	<0.04
J02-SB01-1-S	SB01	8/21/94	8.25	BCA	<0.06
J02-SB01-2-S	SB01	8/21/94	19.25	BCA	<0.04
J02-SB01-3-S	SB01	8/21/94	23.25	BCA	<0.04
J02-SB02-1-S	SB02	8/21/94	8	BCA	<0.05
J02-SB02-2-S	SB02	8/21/94	19.25	BCA	<0.04
J02-SB02-3-S	SB02	8/21/94	23.25	BCA	<0.04
J02-SB03-1-S	SB03	8/21/94	8	BCA	<0.05
J02-SB03-2-S	SB03	8/21/94	19.25	BCA	<0.05
J02-SB03-3-S	SB03	8/21/94	23.25	BCA	<0.04

Analyses	26
Detections	4
Minimum Concentration	0.043
Maximum Concentration	0.051
HWAD - PCG	24
HWAD - PCG Hits	0
Maximum Background Concentration	0.108
Background Hits	0

Notes:

NA = Not analyzed.

NE = Not established.

Mercury
Method 7471A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Mercury, Total
					mg/kg
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.079
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.079
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.076
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.075
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.072
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.08
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.07
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.07
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.07
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.069
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.07
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.07
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.096
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.087
<hr/>					
Analyses					14
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					24
HWAD - PCG Hits					0
<hr/>					
Maximum Background Concentration					0.108
Background Hits					0
<hr/>					

Notes:

NA = Not analyzed.

NE = Not established.

TPH
Method 8015M (BCA Field)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	TPH (as diesel) mg/kg
J02-DP133	HA09	7/23/94	2	BCA Field	<0.2
J02-DP271	SB02	8/21/94	8	BCA Field	<0.2
J02-DP276	SB01	8/21/94	0.3	BCA Field	<0.2
J02-HA01-1-S	HA01	7/22/94	2	BCA Field	<0.2
J02-HA01-2-S	HA01	7/22/94	3	BCA Field	<0.2
J02-HA02-1-S	HA02	7/22/94	2	BCA Field	<0.2
J02-HA03-1-S	HA03	7/22/94	2	BCA Field	<0.2
J02-HA03-2-S	HA03	7/22/94	3	BCA Field	<0.2
J02-HA04-1-S	HA04	7/22/94	1.5	BCA Field	<0.2
J02-HA04-2-S	HA04	7/22/94	3	BCA Field	<0.2
J02-HA05-1-S	HA05	7/22/94	2	BCA Field	<0.2
J02-HA05-2-S	HA05	7/22/94	5	BCA Field	<0.2
J02-HA06-1-S	HA06	7/22/94	1	BCA Field	<0.2
J02-HA07-1-S	HA07	7/23/94	1	BCA Field	<0.2
J02-HA08-1-S	HA08	7/23/94	1	BCA Field	<0.2
J02-HA09-1-S	HA09	7/23/94	1	BCA Field	<0.2
J02-HA09-2-S	HA09	7/23/94	2	BCA Field	<0.2
J02-SB01-1-S	SB01	8/21/94	8.25	BCA Field	<0.2
J02-SB01-2-S	SB01	8/21/94	19.25	BCA Field	<0.2
J02-SB01-3-S	SB01	8/21/94	23.25	BCA Field	<0.2
J02-SB02-1-S	SB02	8/21/94	8	BCA Field	<0.2
J02-SB02-2-S	SB02	8/21/94	19.25	BCA Field	<0.2
J02-SB02-3-S	SB02	8/21/94	23.25	BCA Field	<0.2
J02-SB03-1-S	SB03	8/21/94	8	BCA Field	<0.2
J02-SB03-2-S	SB03	8/21/94	19.25	BCA Field	<0.2
J02-SB03-3-S	SB03	8/21/94	23.25	BCA Field	<0.2
<hr/>					
Analyses					26
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					100
HWAD - PCG Hits					0
<hr/>					

Notes:

NA = Not analyzed.

NE = Not established.

TPH
Method 8015ME

Sample ID	Location ID	Date	Sample Depth (feet)	Lab	C11-C22 (Diesel)	C23-C30 (Motor oil)	C31-C40 (Heavy oil)	C8-C10 (Gasoline)	Diesel Fuel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.95	<0.43	<0.33	<0.18	NA
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.83	<0.38	<0.29	<0.15	NA
J02-TR02-2-S	TR02	2/27/97	5	APCL	<1	<0.47	<0.36	<0.19	NA
Analyses					3	3	3	3	0
Detections					0	0	0	0	0
Minimum Concentration					0	0	0	0	0
Maximum Concentration					0	0	0	0	0
HWAD - PCG					100	100	100	100	100
HWAD - PCG Hits					0	0	0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

Explosives
Method 8090M (BCA Field)

Sample ID	Location ID	Date	Sample Depth (feet)	Lab	Nitrobenzene					
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-DP133	HA09	7/23/94	2	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-DP271	SB02	8/21/94	8	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-DP272	SB03	8/21/94	8	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA01-1-S	HA01	7/22/94	2	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA01-2-S	HA01	7/22/94	3	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA02-1-S	HA02	7/22/94	2	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA03-1-S	HA03	7/22/94	2	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA03-2-S	HA03	7/22/94	3	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA04-1-S	HA04	7/22/94	1.5	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA04-2-S	HA04	7/22/94	3	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA05-1-S	HA05	7/22/94	2	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA05-2-S	HA05	7/22/94	5	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA06-1-S	HA06	7/22/94	1	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA07-1-S	HA07	7/23/94	1	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA08-1-S	HA08	7/23/94	1	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA09-1-S	HA09	7/23/94	1	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-HA09-2-S	HA09	7/23/94	2	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB01-1-S	SB01	8/21/94	8.25	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB01-2-S	SB01	8/21/94	19.25	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB01-3-S	SB01	8/21/94	23.25	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB02-1-S	SB02	8/21/94	8	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB02-2-S	SB02	8/21/94	19.25	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB02-3-S	SB02	8/21/94	23.25	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB03-1-S	SB03	8/21/94	8	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB03-2-S	SB03	8/21/94	19.25	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
J02-SB03-3-S	SB03	8/21/94	23.25	BCA Field	<0.5	u-	<0.25	<0.25	<0.25	<0.25
Analyses			26	26	0	26	26	26	26	26
Detections			0	0	0	0	0	0	0	0
Minimum Concentration			0	0	0	0	0	0	0	0
Maximum Concentration			0	0	0	0	0	0	0	0

Explosives
Method 8090M (BCA Field)

Sample ID	Location ID	Sample Depth (feet)	Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Tetryl
HWAD - PCG	Lab								
1,3,5-Trinitrobenzene	0	0	0	4	8	NE	233	2.6	800
1,3-Dinitrobenzene	0	0	0	0	0	NE	0	0	800
2,3-Dinitrotoluene	0	0	0	0	0	NE	0	0	0
2,4,6-Trinitrotoluene	0	0	0	0	0	NE	0	0	0
2,4-Dinitrotoluene	0	0	0	0	0	NE	0	0	0
2,6-Dinitrotoluene	0	0	0	0	0	NE	0	0	0
2-Nitrotoluene	0	0	0	0	0	NE	0	0	0
3-Nitrotoluene	0	0	0	0	0	NE	0	0	0
4-Nitrotoluene	0	0	0	0	0	NE	0	0	0
Nitrobenzene	0	0	0	0	0	NE	0	0	0
RDX	0	0	0	0	0	NE	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	mg/kg						
J02-DP136	HA09	7/23/94	2	BCA	<0.0004	<0.0006	0.0017	<0.0004	<0.0002	<0.0002	<0.0008
J02-DP274	SB03	8/21/94	8	BCA	<0.0004	<0.0007	<0.0002	<0.0004	<0.0002	<0.0002	<0.0009
<hr/>											
Analyses			2	2	2	2	2	2	2	2	2
Detections			0	0	1	0	0	0	0	0	0
Minimum Concentration			0	0	0.0017	0	0	0	0	0	0
Maximum Concentration			0	0	0.0017	0	0	0	0	0	0
<hr/>											
HWAD - PCG	NE	7200	35	NE	NE	NE	NE	480	7200	NE	NE
HWAD - PCG Hits	NE	0	0	NE	NE	NE	NE	0	0	NE	NE

Notes:

NA = Not analyzed.
NE = Not established.

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Benzene	2-Chloroethylvinylether	Bromobenzene	Bromochloromethane	Bromoform	Bromomethane
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-DP136	HA09	7/23/94	2	BCA	<0.0002	<0.0004	<0.0006	<0.0002	<0.0004	<0.0019
J02-DP274	SB03	8/21/94	8	BCA	<0.0002	<0.0004	<0.0007	<0.0002	<0.0004	<0.0002
Analyses					2	2	2	2	2	2
Detections					0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0
HWAD - PCG					NE	150	NE	10	NE	89
HWAD - PCG Hits					NE	0	NE	0	NE	112
Notes:					NA = Not analyzed.					
					NE = Not established.					

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260 (BCA)

	Sample ID	Location ID	Depth (feet)	Lab	Sample Date	mg/kg	Ethylenzene						
J02-DP136	HA09	7/23/94	2	BCA	<0.0006	<0.0002	<0.0002	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002	
J02-DP274	SB03	8/21/94	8	BCA	<0.0007	<0.0002	<0.0002	<0.0002	<0.0007	<0.0007	<0.0001	<0.0002	

Analyses:
Detections
Minimum Concentration
Maximum Concentration
HWAD - PCG
HWAD - PCG Hits
Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Toluene	Tetrachloroethylene	Total Xylylene Isomers	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethylene	Vinyl chloride
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-DP136	HA09	7/23/94	2	BCA	<0.0004	0.0013	<0.0006	<0.0002	<0.0002	<0.001	<0.0002
J02-DP274	SB03	8/21/94	8	BCA	0.0014	<0.0007	<0.0004	<0.0002	<0.0002	<0.001	<0.0002
Analyses			2		2	2	2	2	2	2	2
Deletions			1		0	1	0	0	0	0	0
Minimum Concentration			0.0014		0	0.0013	0	0	0	0	0
Maximum Concentration			0.0014		0	0.0013	0	0	0	0	0
HWAD - PCG			4800		15	16000	160000	NE	NE	10	24000
HWAD - PCG Hits			0		0	0	0	NE	NE	0	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	L _a ^b	mg/kg						
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0005
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0004	<0.0002
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0001	<0.0003	<0.0003	<0.0006	<0.0003
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0005	<0.0003
Analyses											
Detections											
Minimum Concentration											
Maximum Concentration											
HWAD - PCG	NE	7200	35	NE	NE	NE	NE	NE	NE	480	NE
HWAD - PCG Hits	NE	0	0	NE	NE	NE	NE	NE	NE	0	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Depth (feet)	Lab	mg/kg		mg/kg		mg/kg		mg/kg	
				Date	g	Date	g	Date	g	Date	g
J02-TP01-1-S	TP01	2/26/97	5 APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TP01-2-S	TP01	2/26/97	3 APCL	<0.0001	<0.0006	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TP01-3-S	TP01	2/26/97	3 APCL	<0.0001	<0.0006	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TP02-1-S	TP02	2/27/97	5 APCL	<0.0001	<0.0006	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TP02-2-S	TP02	2/27/97	1 APCL	<0.0001	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TP03-1-S	TP03	2/27/97	5 APCL	<0.0001	<0.0006	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TP03-2-S	TP03	2/27/97	1.5 APCL	<0.0001	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TR01-1-S	TR01	2/27/97	6 APCL	<0.0001	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TR01-2-S	TR01	2/27/97	6 APCL	<0.0001	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TR01-3-S	TR01	2/27/97	11.5 APCL	<0.0001	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TR01-4-S	TR01	2/27/97	6 APCL	<0.0001	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TR01-5-S	TR01	2/27/97	13 APCL	<0.0001	<0.0005	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002
J02-TR02-1-S	TR02	2/27/97	5 APCL	<0.0001	<0.0007	<0.0003	<0.0003	<0.0001	<0.0001	<0.0003	<0.0003
J02-TR02-2-S	TR02	2/27/97	5 APCL	<0.0001	<0.0006	<0.0003	<0.0003	<0.0001	<0.0001	<0.0003	<0.0003
				14	14	14	14	14	14	14	14
				0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0
				NE	0.008	7200	NE	NE	NE	150	NE
				NE	0	0	NE	NE	NE	0	NE

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	mg/kg	Benzene				Bromobenzene				Bromochloromethane				Bromodichloromethane				Bromoform						
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0004	<0.0004	<0.0001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0001			
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0002	<0.0002	<0.0003	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0001			
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0006	<0.0003	<0.0003	<0.0004	<0.0004	<0.0001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0001			
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0003	<0.0003	<0.0001	<0.0006	<0.0003	<0.0003	<0.0004	<0.0004	<0.0001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0001			
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0003	<0.0003	<0.0001	<0.0006	<0.0003	<0.0003	<0.0004	<0.0004	<0.0001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0001			
				14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14			
Analyses																											
Detections																											
Minimum Concentration																											
Maximum Concentration																											
HWAD - PCG																											
HWAD - PCG Hits																											
NE																											
NE																											

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Notes:
 NA = Not analyzed.
 NE = Not established.

VOCS
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	L ^a	Methylchloride					
					Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	Naphthalene	o-Xylene	m,p-Xylenes
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0002	<0.0008	<0.0002	<0.0001	<0.0001
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0008	<0.0002	<0.0001	<0.0002
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0002	<0.0006	<0.0002	<0.0001	<0.0002
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0001	<0.0002	<0.0005	<0.0007	<0.0001	<0.0002
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0001	<0.0002	<0.0002	<0.0008	<0.0001	<0.0002
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0002	<0.0005	<0.0007	<0.0001	<0.0002
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0005	<0.0007	<0.0001	<0.0002
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0005	<0.0007	<0.0001	<0.0002
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0002	<0.0005	<0.0007	<0.0001	<0.0002
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0005	<0.0007	<0.0001	<0.0002
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.0001	<0.0002	<0.0005	<0.0007	<0.0002	<0.0001
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0003	<0.0007	<0.0001	<0.0003
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0006	<0.0009	<0.0003	<0.0003
Analyses						14	14	14	14	14
Detections						0	0	0	0	0
Minimum Concentration						0	0	0	0	0
Maximum Concentration						0	0	0	0	0
HWAD - PCG						8000	NE	NE	NE	NE
HWAD - PCG Hits						0	NE	0	NE	0
Notes:						NA = Not analyzed.				
						NE = Not established.				

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	mg/kg	Vinyl chloride						
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0001	<0.0003	<0.0003	<0.0003	<0.0006	<0.0003	<0.0003
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0001	<0.0001	<0.0003	<0.0003	<0.0003	<0.0005	<0.0003	<0.0003
					14	14	14	14	14	14	14	14
Analyses					0	0	0	0	0	0	0	0
Detections					0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0
HWAD - PCG				NE	NE	NE	15	16000	NE	NE	10	24000
HWAD - PCG Hits				NE	NE	NE	0	0	NE	NE	0	24000

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330 (Datachem)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Analytical Data (mg/kg)										
					1,3,5-Trinitrobenzene	1,3,5-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	HMX	RDX	Tetryl
J02-DP134	HA09	7/23/94	2	Datachem	<0.09	<0.04	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09	<0.34	<0.19
J02-DP269	SB01	8/21/94	8.25	Datachem	<0.09	<0.04	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09	<0.34	<0.19

Analyses
Detections
Minimum Concentration
Maximum Concentration
HWAD - PCG
HWAD - PCG Hits

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330 (APCL)

Sample ID	Location ID	Sample Depth (feet)	Lab	HMX						
				1,3,5-Tnitrobenzene	2,4,6-Tnitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.015	<0.029	<0.046	<0.03	<0.065	<0.083
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.015	<0.029	<0.046	<0.03	<0.083	<0.083
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.015	<0.028	<0.045	<0.029	<0.063	<0.053
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.014	<0.028	<0.044	<0.029	<0.062	<0.051
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.014	<0.026	<0.042	<0.027	<0.059	<0.049
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.015	<0.029	<0.047	<0.03	<0.065	<0.084
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.013	<0.025	<0.041	<0.026	<0.057	<0.073
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.018	<0.035	<0.057	<0.037	<0.079	<0.1
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.017	<0.032	<0.061	<0.033	<0.072	<0.092
				14	14	14	14	14	14	14
Analyses				0	0	0	0	0	0	0
Detections				0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0
HWAD - PCG				4	8	233	2.6	80	800	800
HWAD - PCG Hits				0	0	0	0	0	0	0
Notes:										
NA = Not analyzed.										
NE = Not established.										

Explosives
Method 8330 (APCL)

Sample ID	Location ID	Date (feet)	mg/kg	Tetryl			RDX			Nitrobenzene			2-Amino-4,6-dinitrotoluene			4-Amino-2,6-dinitrotoluene		
				Tetryl	RDX	Nitrobenzene	Tetryl	RDX	Nitrobenzene	Tetryl	RDX	Nitrobenzene	Tetryl	RDX	Nitrobenzene	Tetryl	RDX	Nitrobenzene
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.064	<0.058	<0.052	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.064	<0.058	<0.052	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.061	<0.056	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.061	<0.055	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.058	<0.053	<0.048	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.064	<0.058	<0.053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.057	<0.052	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.056	<0.051	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.056	<0.051	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.056	<0.051	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.057	<0.052	<0.047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.057	<0.052	<0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.078	<0.071	<0.064	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.07	<0.064	<0.057	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Analyses

Detections

Minimum Concentration

Maximum Concentration

HWAD - PCG

HWAD - PCG Hits

Notes:

NA = Not analyzed.

NE = Not established.

Explosives
Method 8330M (APCL)

Sample ID	Location ID	Date	Depth (feet)	Lab	Picric Acid mg/kg
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.79
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.79
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.76
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.75
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.72
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.8
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.7
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.7
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.7
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.69
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.7
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.7
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.96
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.87
<hr/>					
Analyses					14
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					NE
HWAD - PCG Hits					NE

Notes:

NA = Not analyzed.

NE = Not established.

RDX Test Kit
Method 8510 (Tt Field)

Sample ID	Location ID	Date	Depth (feet)	Lab	RDX	RDX-Dup		RDX (Rerun)
						mg/kg	mg/kg	
J02-TP01-1-S	TP01	2/26/97	5	Tt Field	X < 0.8	NA	NA	NA
J02-TP01-2-S	TP01	2/26/97	3	Tt Field	2.13	NA	NA	NA
J02-TP01-3-S	TP01	2/26/97	3	Tt Field	1.38	NA	NA	NA
<hr/>						3	0	0
Analyses						2	0	0
Detections						1.38	0	0
Minimum Concentration						2.13	0	0
Maximum Concentration						64	64	64
<hr/>						0	0	0
HWAD - PCG						64	64	64
HWAD - PCG Hits						0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

TNT Test Kit
Method 8515 (Tt Field)

Sample ID	Location ID	Date	Sample Depth (feet)	Lab	2,4,6-TNT		2,4,6-TNT (Rerun) mg/kg
					mg/kg	mg/kg	
J02-TP01-1-S	TP01	2/26/97	5	Tt Field	< 0.8	NA	NA
J02-TP01-2-S	TP01	2/26/97	3	Tt Field	< 0.8	NA	NA
J02-TP01-3-S	TP01	2/26/97	3	Tt Field	< 0.8	NA	NA
J02-TR01-1-S	TR01	2/27/97	6	Tt Field	< 0.8	NA	NA
J02-TR01-2-S	TR01	2/27/97	6	Tt Field	< 0.8	NA	NA
J02-TR01-3-S	TR01	2/27/97	11.5	Tt Field	< 0.8	NA	NA
J02-TR01-4-S	TR01	2/27/97	6	Tt Field	< 0.8	NA	NA
J02-TR01-5-S	TR01	2/27/97	13	Tt Field	< 0.8	NA	NA
J02-TR02-1-S	TR02	2/27/97	5	Tt Field	< 0.8	NA	NA
J02-TR02-2-S	TR02	2/27/97	5	Tt Field	< 0.8	NA	NA
Analyses					10	0	0
Detections					0	0	0
Minimum Concentration					0	0	0
Maximum Concentration					0	0	0
HWAD - PCG					233	233	233
HWAD - PCG Hits					0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

pH
Method 9045B (APCL)

Sample ID	Location ID	Date	Depth (feet)	Lab	pH
					pH unit
J02-TP01-1-S	TP01	2/26/97	5	APCL	8.74
J02-TP01-2-S	TP01	2/26/97	3	APCL	8.81
J02-TP01-3-S	TP01	2/26/97	3	APCL	8.73
J02-TP02-1-S	TP02	2/27/97	5	APCL	8.05
J02-TP02-2-S	TP02	2/27/97	1	APCL	8.16
J02-TP03-1-S	TP03	2/27/97	5	APCL	8.27
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	7.46
J02-TR01-1-S	TR01	2/27/97	6	APCL	7.62
J02-TR01-2-S	TR01	2/27/97	6	APCL	7.63
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	8.25
J02-TR01-4-S	TR01	2/27/97	6	APCL	7.49
J02-TR01-5-S	TR01	2/27/97	13	APCL	7.35
J02-TR02-1-S	TR02	2/27/97	5	APCL	8.25
J02-TR02-2-S	TR02	2/27/97	5	APCL	8.47
<hr/>					
Analyses					14
Detections					14
Minimum Concentration					7.35
Maximum Concentration					8.81
<hr/>					
HWAD - PCG					NE
HWAD - PCG Hits					NE

Notes:

NA = Not analyzed.

NE = Not established.

Appendix D



J-2, View to northwest down trench, with loading dock and empty 55-gal drum, north margin of SWMU J-2. #RI-P19/20. 11/2/93



August 1999